EXHIBIT 1-ATTACHMENT F

SIERRA CLUB COMMENTS ON CONSENT DECREES, ATT. F:

CONSTRUCTING CONVENTIONAL TREATMENT PLANT AT OR NEAR SSO 700

(EXHIBIT TO KARNEY AND ELMARAGHY DEPOSITIONS)

CONSTRUCTING CONVENTIONAL TREATMENT PLANT AT OR NEAR SSO 700.

Advantages of Conventional Treatment Plant

- Conventional treatment plant would be considered a permanent solution to discharges from SSO 700.
- Diverting the waste flow from the sewershed upstream of SSO 700 would reduce the load entering the Mill Creek WWTP.
- Water quality of Mill Creek downstream of the discharge point would be improved due to
 effluent limitations imposed under an NPDES Permit for a treatment plant versus untreated
 flows currently being discharged from SSO 700 under wet weather conditions which are
 unregulated.
- By properly sizing the plant, capacity would be available to provide service to northern Hamilton County and southern Butler County as it develops.
- Conventional treatment can be designed to produce an effluent containing relatively low concentrations of contaminants.

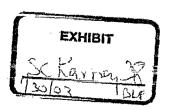
Construction of a conventional treatment facility would likely result in a successful antidegradation review and issuance of a PTI due to the following:

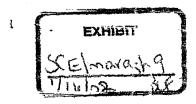
- · Elimination of SSO 700.
- · Improvement of the existing water quality in Mill Creek.
- Reduction in pollutant loads entering the Mill Creek WWTP.

A conventional treatment facility near the location of SSO 700 would capture approximately 70% to 80% of all flows generated in the East Branch Mill Creek Drainage Basin. Only a small portion of the EBMC basin found south of the SSO would continue to contribute flows to the Mill Creek WWTP.

<u>Preliminary review</u> of the following available instream flows, water quality, along with dry and wet weather flows from the 42 inch main line sewer was reviewed to determine if construction of a conventional treatment plant was feasible.

- Mill Creek Dry weather Flow: 20.29 cfs (Field measurement on 6/16/99 near SSO 700)
- Temperature: 25.5°C (Field measurement on 6/16/99 near SSO 700)
- pH: 7.99 S.U.: (Field measurement on 6/16/99 near SSO 700)
- Dry weather flow (42 inch sewer): 21.7 cfs (14 MGD-Mark Kron)
- Wet weather flow (42 inch sewer): 35.6 cfs (23 MGD-Mark Kron)





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Comparison of Dry and Wet Weather Sampling Results, 1999

50 #/100 ml	96400 #/100 ml	
90 #/100 ml	18000 #/100 ml	
26 mg/l	268 mg/l	

A conventional treatment plant with the following effluent quality should be acceptable to the Ohio EPA, and should result in issuance of a PTI.

Pakameter	TO MAN TRACT	7 DAVI IMOT	MAYIMIMIMIMIMUM LIMIT
CBODs (mg/L)	10.0	15.0	n/a
Total Suspended Solids (mg/L)	12.0	18.0 ·	n/a
MH ₃ -N (mg/L)-summer winter	1.0	1.5 4.5	n/a
Dissolved Oxygen (mg/L)	n/a	n/a	6.0 (minimum)
Total Residual Chlorine (mg/L)	n/a	n/a	0,038 (maximum)